FIG 1 VP4 SEQUENCE OF P43 (SEQ ID NO: 1)

```
ATGGCTTCAC TCATTTATAG ACAACTTCTC ACTAATTCAT ATTCAGTAGA   50
TTTACATGAT GAAATAGAGC AAATTGGATC AGAAAAAACT CAGAATGTAA  100
CTATAAATCC GGGTCCATTT GCACAGACTA GATATGCTCC AGTCAATTGG  150
GATCATGGAG AGATAAATGA TTCGACTACA GTAGAACCAA TTTTAGATGG  200
TCCTTATCAG CCAACTACAT TTACTCCACC TAATGATTAT TGGATACTTA  250
TTAATTCAAA TACAAATGGA GTAGTATATG AAAGTACAAA TAATAGTGAC  300
TTTTGGACTG CAGTCGTTGC TATTGAACCG CACGTCAACC CAGTAGATAG  350
ACAATATATG ATATTTGGTG AAAGCAAGCA ATTTAATGTG AGTAACGATT  400
CAAATAAATG GAAGTTTTTA GAAATGTTTA GAAGCAGTAG TCAAAATGAA  450
TTTTATAATA GACGTACATT AACTTCTGAT ACCAGACTTG TAGGAATATT  500
TAAATATGGT GGAAGAGTAT GGACATTTCA TGGTGAAACA CCGAGAGCTA  550
CTACTGACAG TTCAAGTACT GCAAATTTAA ATAATATATC AATTACAATT  600
CATTCAGAAT TTTACATTAT TCCAAGGTCC CAGGAATCTA AATGTAATGA  650
ATATATTAAT AATGGTCTGC CACCAATTCA AAATACTAGA AATGTAGTTC  700
CATTGCCATT ATCATCTAGA TCGATACAGT ATAAGAGAGC ACAAGTTAAT  750
GAAGACATTA TAGTTTCAAA AACTTCATTA TGGAAAGAAA TGCAGTATAA  800
TAGGGATATT ATAATTAGAT TTAAATTTGG TAATAGTATT GTAAAGATGG  850
GAGGACTAGG TTATAAATGG TCTGAAATAT CATATAAGGC AGCAAATTAT  900
CAATATAATT ACTTACGTGA CGGTGAACAA GTAACCGCAC ACACCACTTG  950
TTCAGTAAAT GGAGTGAACA ATTTTAGCTA TAATGGAGGG TTTCTACCCA 1000
CTGATTTTGG TATTTCAAGG TATGAAGTTA TTAAAGAGAA TTCTTATGTA 1050
TATGTAGACT ATTGGGATGA TTCAAAGCA TTTAGAAATA TGGTATATGT 1100
TAGATCATTA GCAGCTAATT TAAATTCAGT GAAATGTACA GGTGGAAGTT 1150
ATTATTTCAG TATACCAGTA GGTGCATGGC CAGTAATGAA TGGTGGCGCT 1200
GTTTCGTTGC ATTTTGCCGG AGTTACATTA TCCACGCAAT TTACTGATTT 1250
TGTATCATTA AATTCACTAC GATTTAGATT TAGTTTGACA GTTGATGAAC 1300
CACCTTTCTC AATACTGAGA ACACGTACAG TGAATTTGTA TGGATTACCA 1350
GCCGCTAATC CAAATAATGG AAATGAATAC TACGAAATAT CAGGAAGGTT 1400
TTCACTCATT TCTTTAGTTC CAACTAATGA TGATTATCAG ACTCCAATTA 1450
```

FIG. 1

FIG 1 VP4 SEQUENCE OF P43 (SEQ ID NO: 1)

```
TGAATTCAGT GACGGTAAGA CAAGATTTAG AGCGCCAACT TACTGATTTA  1500
CGAGAAGAAT TTAACTCATT GTCACAAGAA ATAGCTATGG CACAATTGAT  1550
TGATTTAGCA CTGTTGCCTC TAGATATGTT TTCCATGTTT TCAGGAATTA  1600
AAAGTACAAT TGATTTAACT AAATCAATGG CGACTAGTGT AATGAAGAAA  1650
TTTAGAAAAT CAAAATTAGC TACATCAATT TCAGAAATGA CTAATTCATT  1700
GTCAGATGCT GCTTCATCAG CATCAAGAAA CGTTTCTATT AGATCGAATT  1750
TATCTGCGAT TTCAAATTGG ACTAATGTTT CAAATGATGT GTCAAACGTA  1800
ACTAATTCAT TGAACGATAT TTCAACACAA ACATCTACAA TTAGTAAGAA  1850
ACTTAGATTA AAAGAAATGA TTACTCAAAC TGAAGGAATG AGCTTTGACG  1900
ACATTTCAGC AGCTGTACTA AAAACAAAAA TAGATATGTC TACTCAAATT  1950
GGAAAAAATA CTTTACCTGA TATAGTTACA GAAGCATCTG AGAAATTTAT  2000
TCCAAAACGA TCATATCGAA TATTAAAGGA TGATGAAGTA ATGGAAATTA  2050
ATACTGAAGG AAAAATTCTTT GCATACAAAA TTAATACATT TGATGAAGTG  2100
CCATTCGATG TAAATAAATT CGCTGAACTA GTAACAGATT CTCCAGTTAT  2150
ATCAGCGATA ATCGATTTTA AGACATTGAA AAATTTAAAT GATAATTATG  2200
GAATCACTCG TACAGAAGCG TTAAATTTAA TTAAATCGAA TCCAAATATG  2250
TTACGTAATT TCATTAATCA AAATAATCCA ATTATAAGGA ATAGAATTGA  2300
ACAGTTAATA CTACAATGTA AATTGTGAGA ACGCTATTGA GGATGTGACC  2350
```

FIG. 1 (CON'T)

FIG 2 VP7 SEQUENCE OF P43 (SEQ ID NO: 2)

```
ATGTATGGTC TTGAATATAC CACAATTCTA ATCTTTCTGA TATCAATTAT    50
TCTACTCAAC TATATATTAA AATCAGTAAC TCGAATAATG GACTACATTA   100
TATATAGATC TTTGTTGATT TATGTAGCAT TATTTGCCTT GACAAGAGCT   150
CAGAATTATG GGCTTAACTT ACCAATAACA GGATCAATGG ACACTGTATA   200
CGCTAACTCT ACTCAAGAAG GAATATTTCT AACATCCACA TTATGTTTGT   250
ATTATCCAAC TGAAGCAAGT ACTCAAATTA ATGATGGTGA ATGGAAAGAC   300
TCATTGTCAC AAATGTTTCT CACAAAAGGT TGGCCAACAG GATCAGTCTA   350
TTTTAAAGAG TATTCAAGTA TTGTTGATTT TTCTGTCGAT CCACAATTAT   400
ATTGTGATTA TAACTTAGTA CTAATGAAAT ATGATCAAAA TCTTGAATTA   450
GATATGTCAG AGTTAGCTGA TTTAATATTG AATGAATGGT TATGTAATCC   500
AATGGATATA ACATTATATT ATTATCAACA ATCGGGAGAA TCAAATAAGT   550
GGATATCAAT GGGATCATCA TGTACTGTGA AAGTGTGTCC ACTGAATACG   600
CAAATGTTAG GAATAGGTTG TCAAACAACA AATGTAGACT CGTTTGAAAT   650
GGTTGCTGAG AATGAGAAAT TAGCTATAGT GGATGTCGTT GATGGGATAA   700
ATCATAAAAT AAATTTGACA ACTACGACAT GTACTATTCG AAATTGTAAG   750
AAGTTAGGTC AAGAGAGAA TGTAGCTGTA ATACAAGTTG GTGGCTCTAA   800
TGTATTAGAC ATAACAGCAG ATCCAACGAC TAATCCACAA ACTGAGAGAA   850
TGATGAGAGT GAATTGGAAA AAATGGTGGC AAGTATTTTA TACTATAGTA   900
GATTATATTA ACCAAATCGT GCAGGTAATG TCCAAAAGAT CAAGATCATT   950
AAATTCTGCA GCTTTTTATT ATAGAGTATA GATATATCTT AGATTAGATC  1000
GATGTGACC
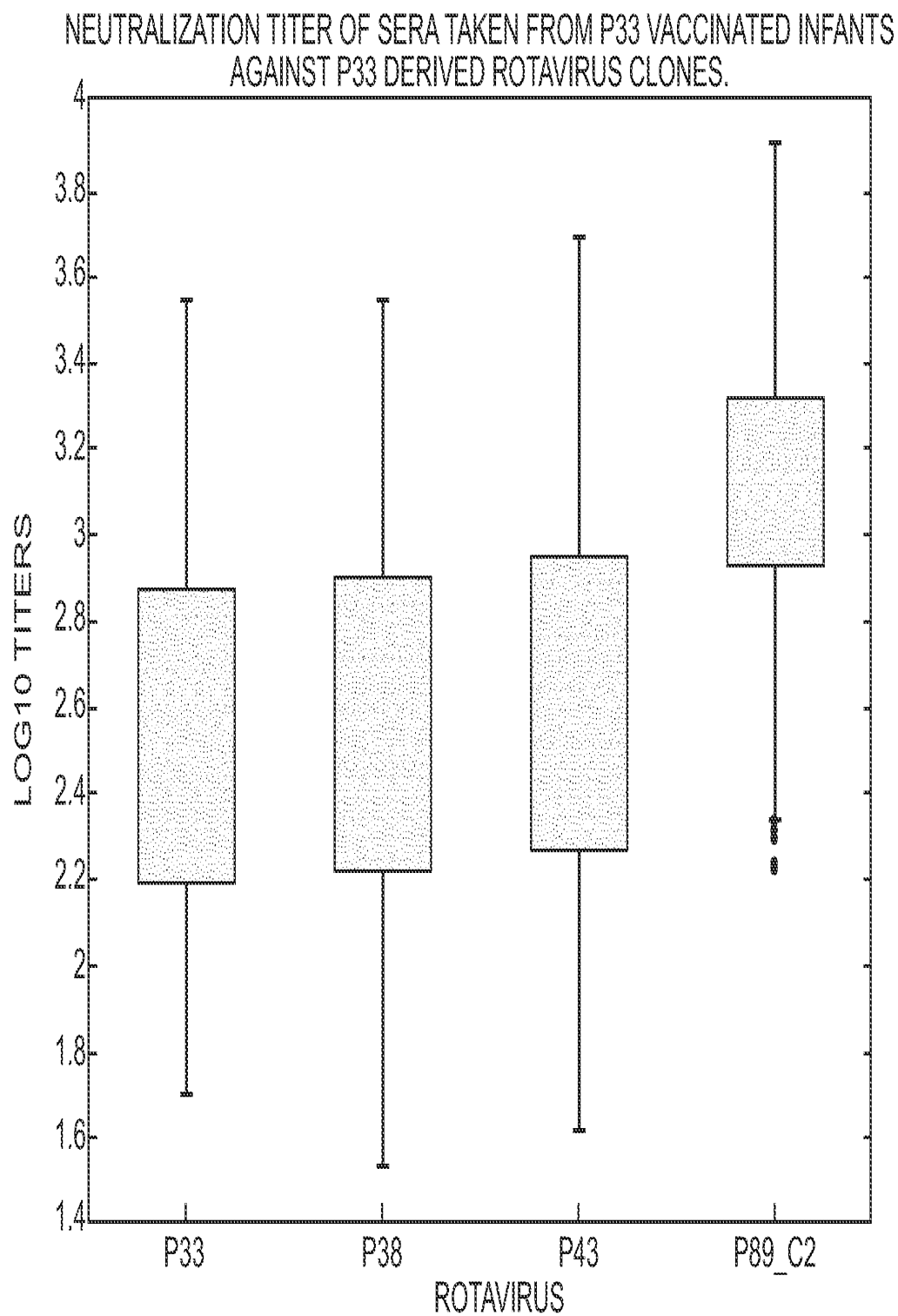```
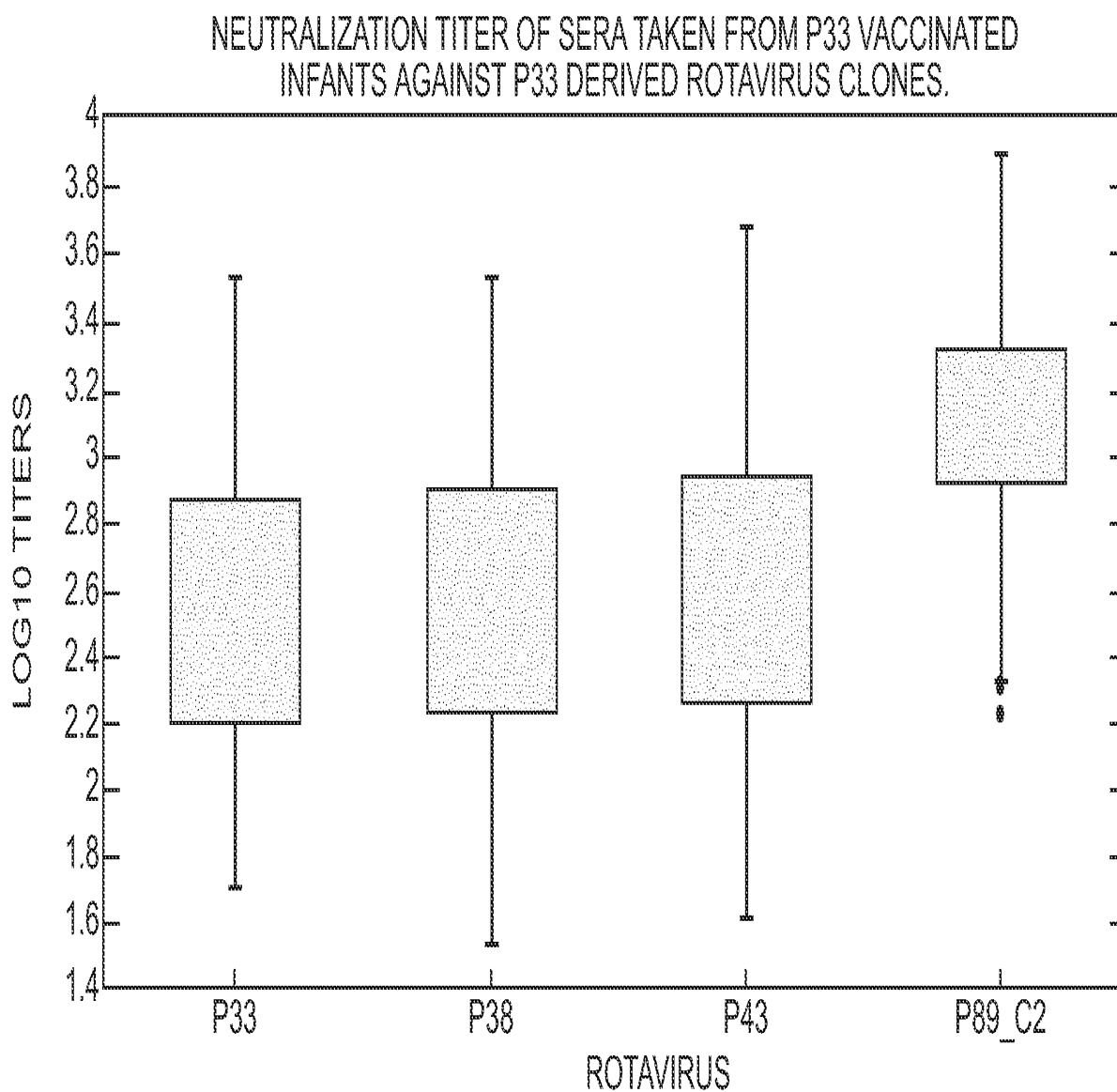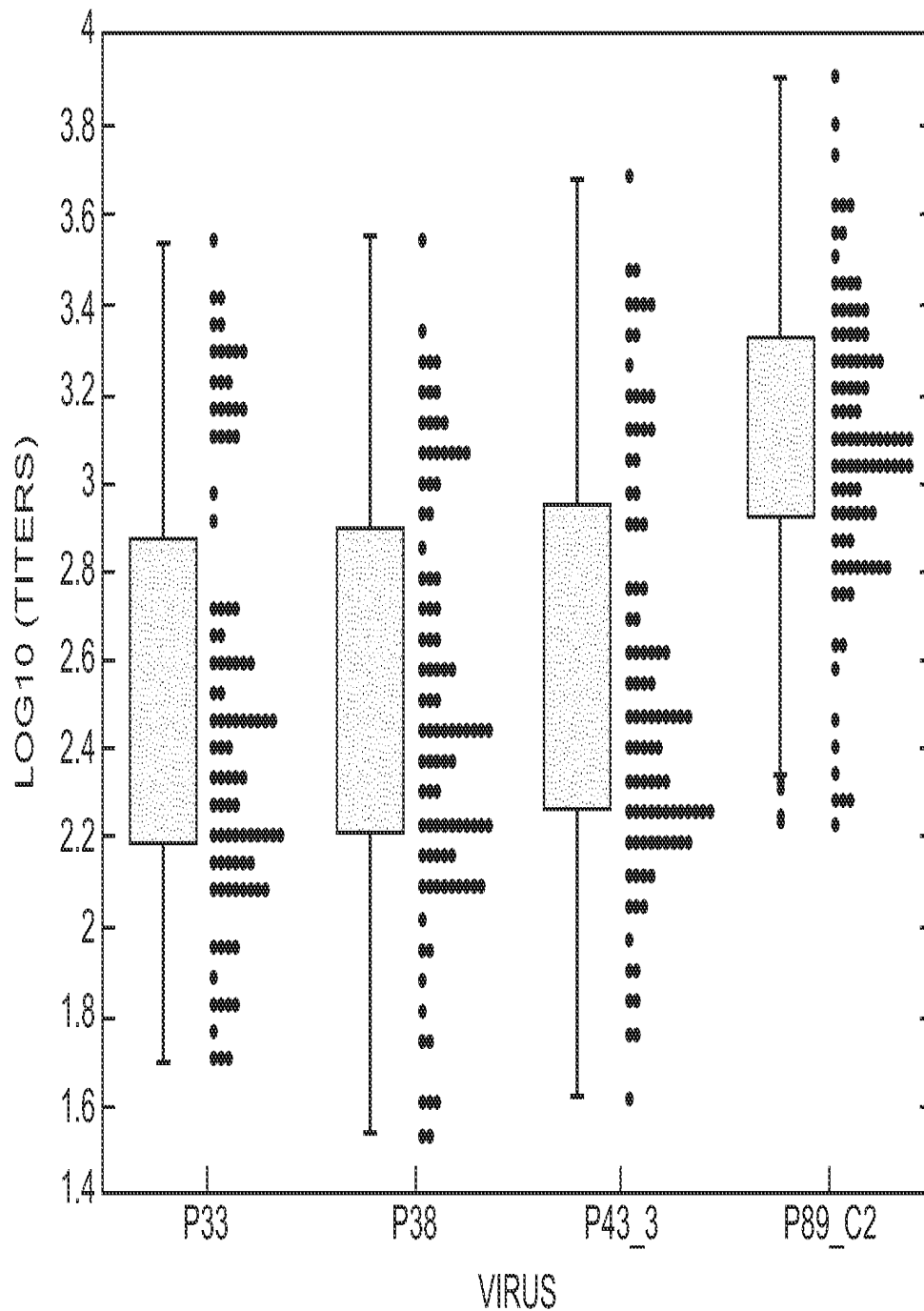
*FIG. 2*

NEUTRALIZATION TITER OF SERA TAKEN FROM P33 VACCINATED INFANTS
AGAINST P33 DERIVED ROTAVIRUS CLONES.



*FIG. 3*

NEUTRALIZATION TITER OF SERA TAKEN FROM P33 VACCINATED INFANTS AGAINST P33 DERIVED ROTAVIRUS CLONES.
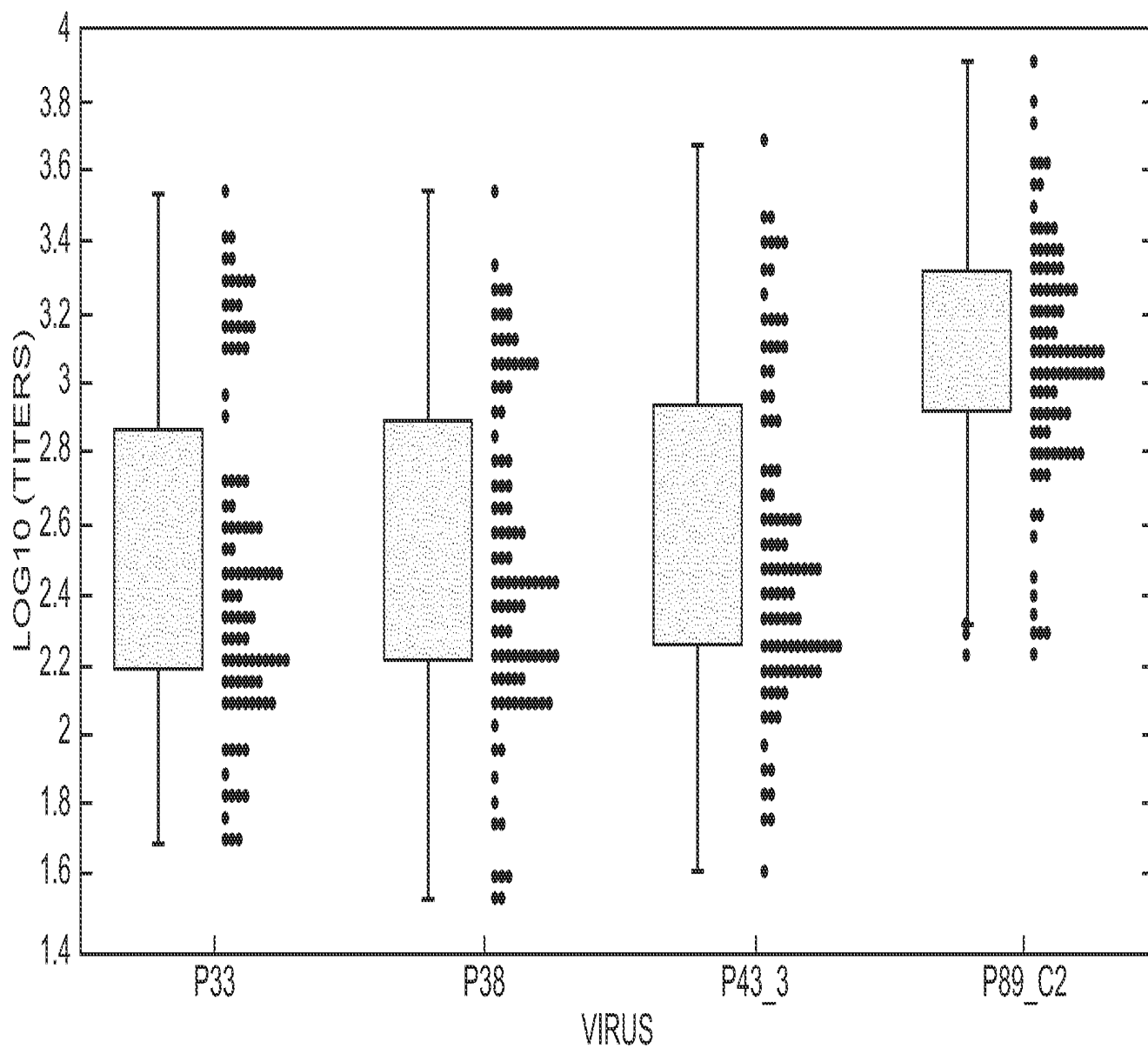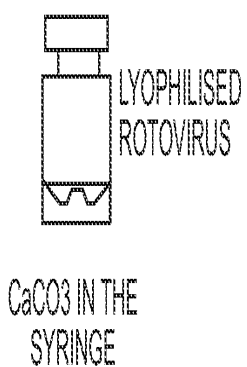
*FIG. 4*

NEUTRALIZATION TITER OF SERA TAKEN FROM P33 VACCINATED
INFANTS AGAINST P33 DERIVED ROTAVIRUS CLONES.

*FIG. 5*

NEUTRALIZATION TITER OF SERA TAKEN FROM P33 VACCINATED INFANTS AGAINST P33 DERIVED ROTOVIRUS CLONES.

*FIG. 6*

SYRINGE
WITH 1.3ml
CaCO3
(60mg/ml)

NEEDLE

LYOPHILISED
ROTOVIRUS

CaCO3 IN THE
SYRINGE

*FIG. 7A*

SYRINGE
WITH 1.3ml
WATER

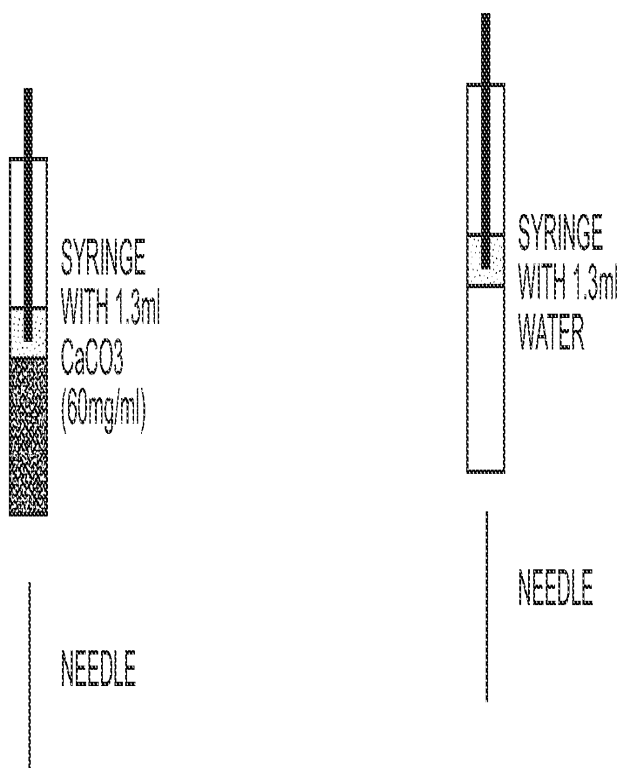NEEDLE

LYOPHILISED VIAL
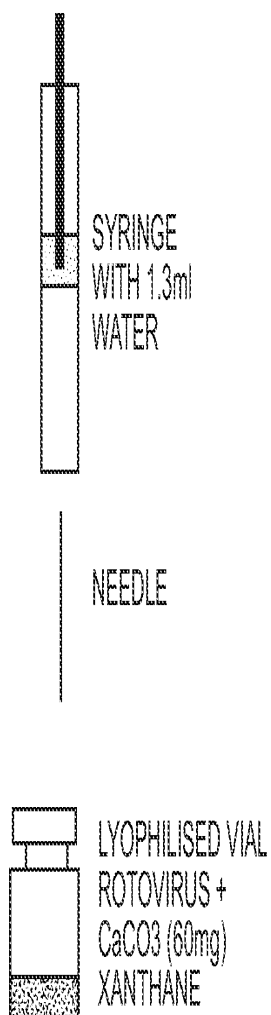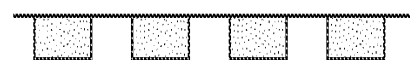ROTOVIRUS +
CaCO3 (60mg)
XANTHANE

CaCO3 IN THE
LYOPHILISED VIAL

*FIG. 7B*

LYOPHILISATION
IN A BLISTER

*FIG. 7C*